Example 1. Text of Schoenberg's A Survivor from Warsaw

I cannot remember ev'rything. I must have been unconscious most of the time. I remember only the grandiose moment when they all started to sing, as if prearranged, the old prayer they had neglected for so many years—the forgotten creed! But I have no recollection how I got underground to live in the sewers of Warsaw for so long a time.

The day began as usual: Reveille when it still was dark. Get out! Whether you slept or whether worries kept you awake the whole night. You had been separated from your children, from your wife, from your parents. You don't know what happened to them ... how could you sleep?

The trumpets again. Get out! The sergeant will be furious! They came out; some very slow: the old ones, the sick ones; some with nervous agility. They fear the sergeant. They hurry as much as they can. In vain! Too much too much noise, much too much commotion! And not fast enough! The Feldwebel shouts! »Achtung! Stilljestanden! Na wird's mal? Oder soll ich mit dem Gewehrkolben nachhelfen? Na gut, wenn ihr's durchaus haben wollt!«

The sergeant and his subordinates hit everybody: young or old, quiet or nervous, guilty or innocent... it was painful to hear them groaning and moaning. I heard it though I had been hit very hard, so hard that I could not help falling down. We all on the ground who could not stand up were then beaten over the head...

I must have been unconscious. The next thing I heard was a soldier saying: »They are all dead«, whereupon the sergeant ordered to do away with us. Then I lay aside—half-conscious. It had become very still—fear and pain. Then I heard the sergeant shouting: »Abzählen!«

Hear, O Israel! The Lord is our God, the Lord is One.
You shall love the Lord your God with all your heart and with all your soul and with all your might.
Take to heart these instructions with which I charge you this day. Impress them upon your children. Recite them when you stay at home and when you are away, when you lie down and when you get up. (Deuteronomy 6:4–7)

“Stand at attention! Hurry up! Or do you want to feel the butt of my gun? Okay, you’ve asked for it”
“Count off!”
“Quicker! Start again! In a minute I want to know how many I’m going to deliver to the gas chamber! Count off!”

Example 2a-f. Tripartite text descriptions

a. Whether you slept or whether worries kept you awake the whole night: you had been separated from your children, from your wife, from your parents, you don’t know what happened to them; How could you sleep?
b. The sergeant and his subordinates hit everyone: young or old, strong or sick, guilty or innocent
c. You shall love the Lord thy God with all thy heart and with all thy soul and with all your might.
d. I remember only the grandiose moment when they all started to sing, as if prearranged, the old prayer they had neglected for so many years - the forgotten creed! ... they began singing the Shema Yisroel.
e. Hear, O Israel! The Lord is our God, the Lord is One. You shall love the Lord your God with all your heart and with all your soul and with all your might.
f. They came out; some very slow ... They started slowly, and irregularly ... They began again, first slowly ...

† “Stand at attention! Hurry up! Or do you want to feel the butt of my gun? Okay, you’ve asked for it”
†† “Count off!”
††† “Quicker! Start again! In a minute I want to know how many I’m going to deliver to the gas chamber! Count off!”
Example 3. Prime row of *A Survivor from Warsaw*

Example 4. Row matrix for *A Survivor from Warsaw*

Example 5a-d. Hexachords that share invariant 3–12 trichords
Example 6a. \(T_4\)-related \(P\) and \(I\) hexachords that share invariant \([0,4,8]\) trichords in order positions \(2\) through \(4\): \(P_6/I_2, P_{10}/I_6, P_2/I_{10}\)

Example 6b. \(T_4\)-related \(P\) and \(I\) hexachords that share invariant \([0,4,8]\) trichords in order positions \(2\) through \(4\): \(I_2/P_{10}, I_6/P_2, I_{10}/P_6\)

ORDER NUMBERS:

\[
\begin{array}{cccccc}
0 & 1 & 2 & 3 & 4 & 5 \\
\hline
P_6 & 6 & 7 & 0 & 8 & 4 & 3 \\
I_2 & 2 & 1 & 8 & 0 & 4 & 5 \\
P_{10} & t & e & 4 & 0 & 8 & 7 \\
I_6 & 6 & 5 & 0 & 4 & 8 & 9 \\
P_2 & 2 & 3 & 8 & 4 & 0 & e \\
I_{10} & t & 9 & 4 & 8 & 0 & 1 \\
\end{array}
\]

Example 7a-b. Segmentation and cyclic combinations of \(P/I\) hexachords that share invariant \([0,4,8]\) trichords

a) \(T_4\)-related \(P\) and \(I\) hexachords that share invariant \([0,4,8]\) trichords

ORDER NUMBERS:

\[
\begin{array}{cccccc}
0 & 1 & 2 & 3 & 4 & 5 \\
\hline
I_2 & 2 & 1 & 8 & 0 & 4 & 5 \\
P_{10} & t & e & 4 & 0 & 8 & 7 \\
I_6 & 6 & 5 & 0 & 4 & 8 & 9 \\
P_2 & 2 & 3 & 8 & 4 & 0 & e \\
I_{10} & t & 9 & 4 & 8 & 0 & 1 \\
P_6 & 6 & 7 & 0 & 8 & 4 & 3 \\
\end{array}
\]

b) Cyclic combinations

i) \(<0–I>\)  \(<2–3–4>\)  \(<5>\)
ii) \(<6,7,2,1,t,e,6,5,2,3,1,9>\)  \([0,4,8]\)  \(<3,5,7,9,e,1>\)
iii) \(9–12(01245689t)\)  \(3–12(048)\)  \(6–35(02468t)\)
Example 8. Perle’s common harmonic element

Example 9a. Small-scale invariant T4-cycles from *A Survivor from Warsaw*

Measure 11
Example 9b. Small-scale invariant T4-cycles from *A Survivor from Warsaw*
Measure 10

Example 9c. Small-scale invariant T4-cycles from *A Survivor from Warsaw*
Measure 51

Example 10. 3–12 trichords related by ic 1
Example 11a. $T_1$-related rows and regions that share identical 3–12 trichords

$T_1$-related rows

Example 11b. $T_1$-related rows and regions that share identical 3–12 trichords

$T_1$-related regions

Example 12. Reduction of measures 35–37, *A Survivor from Warsaw*
Example 13. Instrumental reduction of measures 72–80, *A Survivor from Warsaw*

Example 14. Rudimentary $T_4$-interval cycle

$$T_4 \text{ cycle starting from pc } 0 = 0 \rightarrow 4 \rightarrow 8 \rightarrow 0$$

$(T_4)$  $(T_4)$  $(T_4)$
Example 15. Regions, A Survivor from Warsaw

Example 16. $T_4$-interval cycle of $I$-combinatorial regions with $W$, $M$, and SETLIST

<table>
<thead>
<tr>
<th>Order Numbers</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>$P_6$</td>
<td>6</td>
<td>7</td>
<td>9</td>
<td>8</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>$I_{11}$</td>
<td>e</td>
<td>t</td>
<td>5</td>
<td>9</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>$P_{10}$</td>
<td>t</td>
<td>e</td>
<td>4</td>
<td>0</td>
<td>8</td>
<td>7</td>
</tr>
<tr>
<td>$I_3$</td>
<td>3</td>
<td>2</td>
<td>9</td>
<td>1</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>$P_2$</td>
<td>2</td>
<td>3</td>
<td>8</td>
<td>4</td>
<td>0</td>
<td>e</td>
</tr>
<tr>
<td>$I_7$</td>
<td>7</td>
<td>6</td>
<td>1</td>
<td>5</td>
<td>9</td>
<td>t</td>
</tr>
</tbody>
</table>

$W = \{0, 1\}, \{2, 3, 4\}, \{3\}$

SETLIST $M = (01)^3 (014589)^3$

$M = \{6, 7\}, \{t, e\}, \{0, 1, 4, 5, 8, 9\}, \{2, 3\}$

Example 17. Compressed network of the thrice-iterated $T_4$-interval cycle of $I$-combinatorial regions
Example 18. Reduction of measure 31
Example 19. Form and text, *A Survivor from Warsaw*

(click on the blue boxes to hear the accompanying audio)

Example 20. Four-note fanfare
Example 21. Men's chorus and the Tetragrammaton

Men

A-dō'noy el-o-he-noo A-dō'noy

Y H W H